



Leachate Disposal

Standard Operating Procedure

REFUSE
DISPOSAL
DIVISION

Landfill Operations

Leachate is a byproduct of storm water and moisture from compacting and degrading refuse percolating through the buried refuse within the lined sections of the landfill. Leachate is collected through a system of collection pipes and storage tanks and should be disposed of at least weekly and on a more frequent basis as needed to maintain less than 10,000 gallons in the storage system. A water truck equipped with a gravity-fed bottom dump valve or sprayer system is used to transport and discharged the leachate to a designated section of the lined area of the landfill. The following procedures should be followed:

1. Park the water truck directly under the storage tank discharge stand with the discharge control sock lined up with the tank inlet of the truck
2. Ensure all discharge valves on the truck are closed
3. Open the shut-off valve at the leachate tank to be drained
4. Stand clear of the truck, unlock the line valve at the stand and open the valve
5. Monitor the effluent flow into the truck and close the shut-off valve on the leachate tank that was drained when the liquid surface reaches 12 to 18 inches below the top of the tank on truck
6. Check the shut-off valve on the other tank to make sure it is closed
7. Close the line valve and place the lock back on the line valve
8. Check the shut-off valve on the other tank to make sure it is closed
9. Visually inspect the discharge control sock to ensure it is not dripping
10. Pull the truck away slowly, checking the mirrors to confirm the sock has stopped dripping
Note: If the sock continues to drip, re-center the truck under the sock and recheck all valves to ensure they are all properly closed.
11. Drive carefully to the deck above the active face, avoiding bumps, dips, sharp turns to avoid spilling
12. Obtain the location of the leachate discharge area from your supervisor or landfill engineer
13. Park the truck at the top of the trash with the bottom dump or sprayer facing the trash
14. Verify that the discharge area is free of personnel or operating equipment, stand clear of the sprayer or dump valve and open the valve
15. Close the sprayer or dump valve when the truck is empty
16. Log in how many gallons of leachate were removed from the tanks on forms provided



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17. Fill the truck with reclaimed water and use for dust control on entry roads, scraper roads, and haul roads

Consequence of Non-Compliance to Instruction:

- Potential for exposure (dermal contact) with leachate
- Violations and/or fines from regulatory agency
- Impact on surface water and native habitat
- Spills or releases to the ground requiring HSET response

Benefit of Compliance to Instruction:

- Minimizes potential impact to the environment
- Keeps the waste stream contained within a lined system
- Controls waste stream at point of generation
- Avoids unnecessary ponding on the landfill
- Maintains compliance with operating permit

Environmental Management System (EMS) –ISO 14001

PROCESS MAP #: DO-1.2

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